

27821 Biofilm Techniques for Food Research August 2013

Daily staff:

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Practical information

- Experiments and talks
 - Short 10 min intro every day before the first lab session
- Work in the lab
 - Lab coats
 - Waste
- Talks (almost) every day, Be there in time. All talks will be in this room
- Project presentations (your own projects “at home”)
- Presentations at the last day
 - Treat data/results on the way so that you just have to put everything together in the end
- The wiki page
 - Schedule for the different experiments
 - List of speakers
 - Laboratory manuals and protocols
 - The flow systems
 - Additional protocols
 - Accompanying papers
- Valuables
- Teams
- Coffee / Tea / Lunch

The different exercises

- **5 different biofilm systems are going to be set up:**
- System 1: Development and architecture of *E. coli* biofilms
- System 2: FISH in biofilms(*P. aeruginosa* and *Acinetobacter* variants)
- System 3: Differentiation, structure development and colistin tolerance in *P. aeruginosa* biofilms
- System 4 and 5: Free Exercise
- Adhesion assay (KU)
- Diagnostics
- Additionally:
 - The biofilm protocol
 - The FISH protocol
 - Adhesion assay
 - Conjugation/plasmid transfer
 - MIC determinations
 - Cell sorting (demo)
 - Quorum Sensing assays

Friday program

Friday 23/8 (Copenhagen University):

- 9:00 The exercises and practical information (this presentation)
- 9:10 Talk: Susanne Knøchel: Reemergence of bacterial contamination in food plants – are biofilms to blame?**
- Technical Talk: Janus Haagensen and Claus Sternberg: Biofilms and tools, confocal microscopy.**
- 10:30 Coffee Break
- 10:45 Henrik Sigumfeldt: Make groups and Intro to Adhesion exercise.**
- 11:15 Tour of the institute
- 11:45 Lunch.
- 12:45 Adhesion assay.
- 5:00 End of day 1

Saturday 24/8 (Technical University of Denmark)

- Check busses (special schedule in weekends)
- Lunch in the weekend